



Project Initialization and Planning Phase

Date	10 March 2025	
Team ID	LTVIP2025TMID26675	
Project Title	Visualization Tool for Electric Vechicle Charge and Range Analysis	
Maximum Marks	3 Marks	

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview		
Objective	Develop a tool to visualize EV charging patterns and range efficiency.	
Scope	Analyze EV charging data, battery performance, and range optimization.	
Problem Statement		
Description	Limited insights into EV charging behavior and range.	
Impact	Helps users optimize charging and policymakers improve infrastructure.	
Proposed Solution		
Approach	Data processing, visualization, and interactive dashboard.	
Key Features	Charging trend analysis, range optimization, and web integration.	





Resource Requirements

Resource Type	Description	Specification/Allocation	
Hardware			
Computing Resources	CPU/GPU specifications, number of cores	4-core CPU	
Memory	RAM specifications	8GB RAM	
Storage	Disk space for data, models, and logs	500GB SSD	
Software			
Frameworks	Python frameworks	Python (pandas, Matplotlib, Seaborn).	
Libraries	Additional libraries	Tableau	
Development Environment	IDE, version control	Flask/Django	
Data			
Data	Source, size, format	EV charging dataset from Kaggle or government sources	